

*Purchased
from the
Chancellor
Richardson
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Fund*

CANADIANA
COLLECTION
QUEEN'S
UNIVERSITY
AT KINGSTON



ONTARIO CANADA

*The EDITH and LORNE PIERCE
COLLECTION of CANADIANA*



Queen's University at Kingston

INTRODUCTORY

WE take pleasure in presenting this catalogue to you. All electrical machines and appliances shown herein are manufactured by us, and guaranteed as to quality and efficiency. If you do not find in this catalogue what you want, write us. We may have just what you want; if not, we are in a position to make it for you. We thank you for your liberal patronage in the past and solicit a continuance of same.

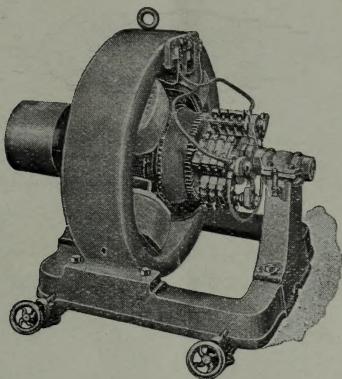
Yours truly,

THE GALT ELECTRICAL MFG CO.,
Limited ————— GALT, CANADA



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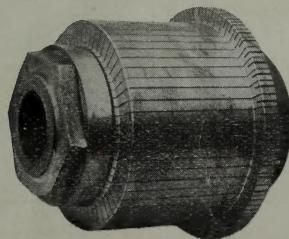
These Machines are made in sizes from 1-2 to 10 H.P. 110, 250 and 500 volts.

Correct Proportions, both mechanically and electrically, as a result of long experience.

Slow or moderate speed insures long life.

Unbroken Magnetic Circuit. The whole machine being cast in one piece economizes in exciting current and saves power.

Intense Magnetic Field. Insures a constant non-sparking point, prevents cutting of commutator and brushes, reduces cost of attendance.

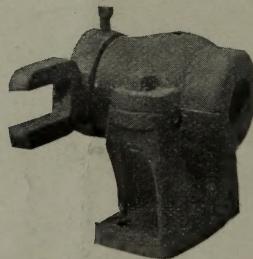


Commutator, which is of hard copper, is generous in size, thus being especially fitted for severe services.



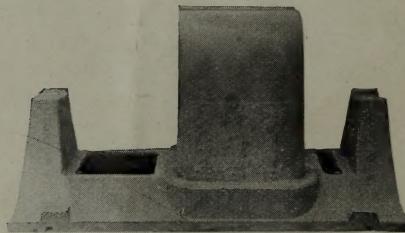
Armature

Is of the drum wound type, laminated core, properly keyed and balanced before winding; thoroughly insulated with specially prepared linen, wound with double cotton covered wire; parting strips being used between each section, tightly banded and insulated with armature varnish, thoroughly baked, and has proven to be one of the most durable armatures thus far known to the electrical world.



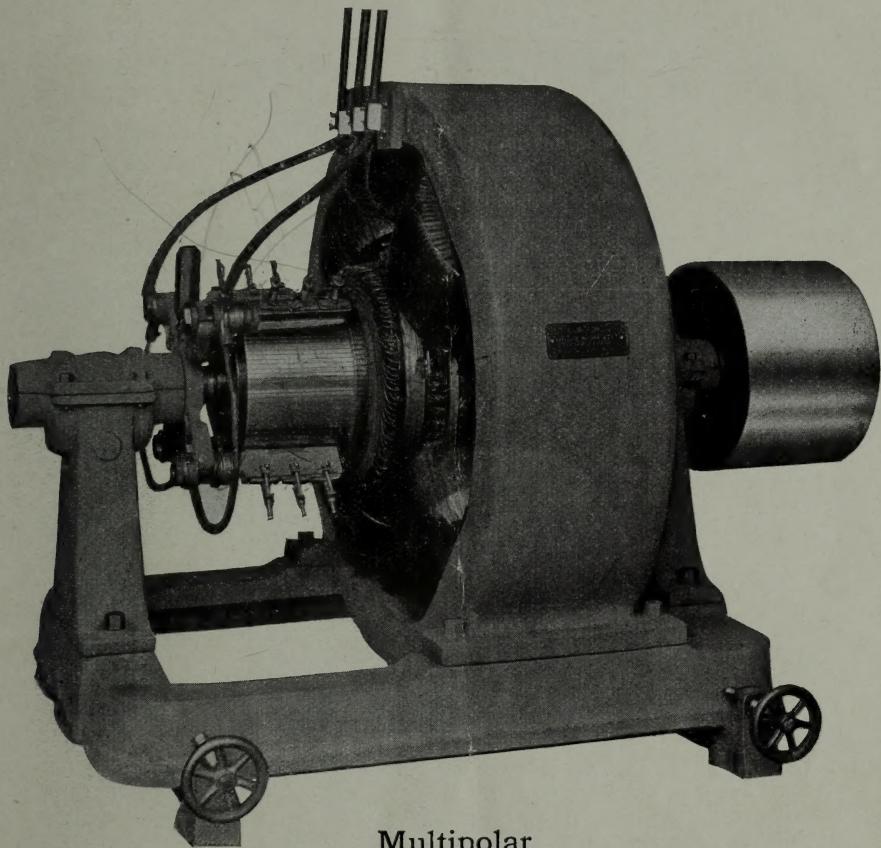
Bearings and Pedestal

Are of the ring oiling self aligning type, and are manufactured from the best quality of gun metal.



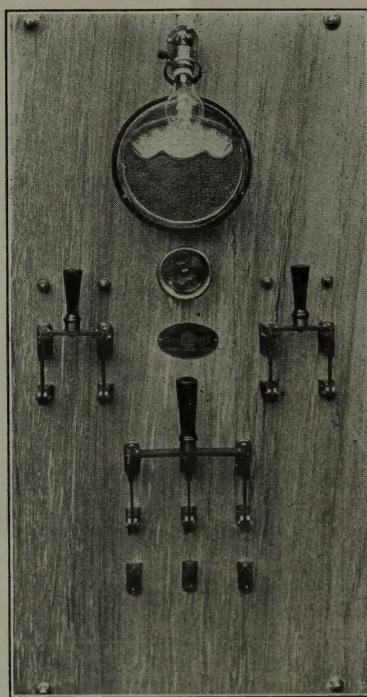
Frame

Frame is made from special quality grey iron placed on sliding rails for ease and speed in adjustment of belt.



Multipolar

This engraving illustrates the line of Multipolar Machines built by The Galt Electrical Mfg. Co., Limited. As the illustration shows, these machines embody the principles of proportion and modern design. They are of the four pole type with laminated soft wrought iron pole pieces cast in. The discs of armature are all slotted before assembling, avoiding eddy currents and undue heating. The fields and series coils are machine wound and thoroughly insulated. The conducting coils are formed and taped, then laid in tubes of specially prepared insulation impervious to dampness or puncture. The commutator is large and insulated with best mica. The clamp rigs are also mica, which will not shrink and loosen segments, so common in other makes of machines. Carbon brushes are used, fitted in copper holders, with adjustable tension feed. The bearings are of gun metal, self-oiling and self aligning. The sub-base has sliding rails and belt tightening attachments. These machines are built in sizes from 10 to 40 horse power, any voltage.

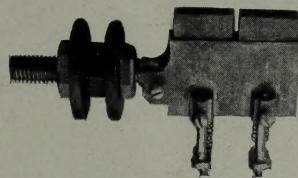


Switch Boards

Armature

The core is built up of laminated punched discs, assembled directly on the shaft with continuous key ; and are slotted before assembling, thus avoiding eddy currents and undue heating. The conducting coils are formed and taped, then laid in tubes of specially prepared insulation, impervious to dampness or puncture.

The commutator is large, giving ample brush surface, not found in other machines, and is insulated with best mica ; the clamp rings are also mica, which will not shrink and allow segments to loosen, so common in other makes of machines.



Carbon Brushes

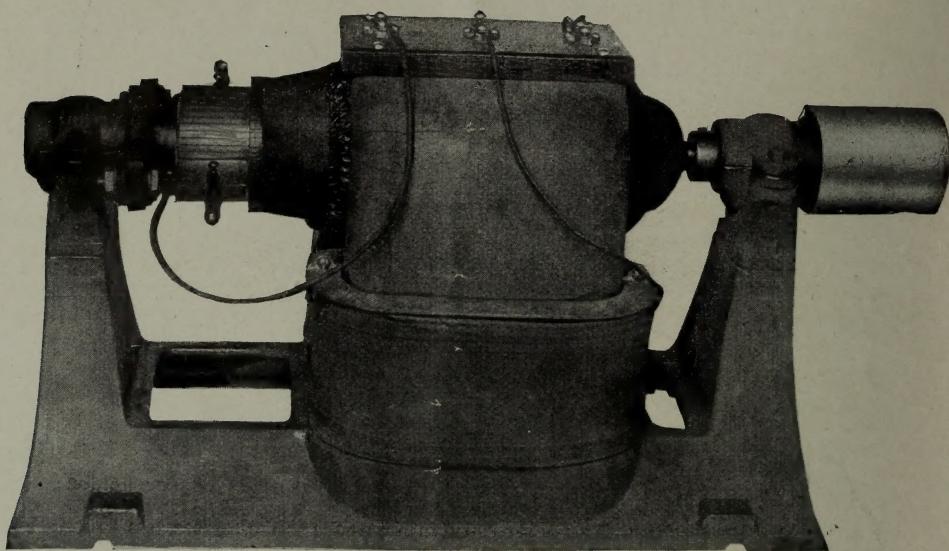
The above cut represents carbon brushes which are fitted in copper holders, with adjustable tension feed, being a great advantage when machines are operated in isolated plants, where it is not possible to provide the services of an experienced engineer.



Bearings

The bearings are of gun metal, self-oiling and self-adjusting, being simple in construction and very durable. The sub-base has sliding nails and belt tightening attachments.

These machines are built in sizes from 10 to 40 h.p., any voltage.



Our Special Lighting Dynamo

This is a Dynamo manufactured expressly to be operated by gas or gasoline engine and will produce an absolutely steady light, driven by the above named machines. This feature as a success is new, and places those who are not conveniently situated to be supplied with gas or electric light in a position to have their own electric light plant, thus having all the advantages in this respect of any city throughout the land. We also have a number of these lighting plants in use in places where public electric lighting plants have a franchise. Some of the advantages claimed are: The individual may have light at his pleasure, instead of only a portion of the night, and that the cost of light is less, as the profit over and above running expenses remains in the hands of the owner. In this connection we would refer prospective purchasers to a few references from customers who are using our special lighting plants. This machine is substantially built, durable, and requires but little attention in its operations.

You cannot afford to remain behind the times, especially when the most modern, the most safe, the best light excepting that of the sun is within your reach. This is no experiment, but an article guaranteed and at a price which makes it a thoroughly business proposition. Write us, tell us your wants, and let us give you a quotation on a machine suitable for your requirements.

Testimonials

From users of our Special Lighting Plants

South Woodslee, Ont., March 7, 1907.

MAPLE LEAF AUTO. & ELECTRIC CO.

London, Ont.

GENTLEMEN:—Over three months ago I purchased one of your private lighting plants, consisting of Dynamo and Gasoline Engine. I have 32 incandescent lamps in my hotel, furnished by Dynamo and driven by 2 H. P. Gasoline Engine. Everything works splendidly. Lights in all parts of the house whenever wanted. I start up my engine in the evening, the lights are then turned on by members of the family or guests of the house, where and when wanted. No trouble, no smoke, no smell; and expense of gasoline is less than the cost of coal oil when using lamps, besides being equipped with city convenience as far as light is concerned.

Yours truly, E. F. MENARD.

Tavistock, Ont., March 28, 1907.

MAPLE LEAF AUTO. & ELECTRIC CO., LTD.,

London, Ont.

GENTLEMEN:—Five weeks ago you installed in my hotel here, your private Electric Lighting Plant. At that time you requested me to write you at as early a date as possible stating my satisfaction and experience with this outfit.

As above stated we have been running now for five weeks, and for information to the general public, let me say that my plant consists of 3 H. P. Gasoline Engine, Electric Dynamo, and 73 incandescent lamps, varying in candle power from 5 to 16.

The Galt Electrical Manufacturing Company, Limited

I might further say that our village has a public lighting plant. I have a two-way switch, whereby I can in a moment switch from my private plant to that of the village, and hereby assert that the light furnished by the village plant is nowhere to be compared with that of my own. My light is steady and much more brilliant than theirs. I have no trouble, we start the machine, turn on the lights in various parts of the hotel at our pleasure, and expense of running I consider a great saving from that of purchasing light from a public station. Besides I have light whenever I feel disposed. I also use my engine for pumping water through my hotel, giving me a regular water works system as well. I would have written you before this but wanted to test the plant thoroughly under all conditions before asserting myself regarding it. Wishing you every success, I remain,

Yours truly, F. LEIBLER.

Below are appended the names of some of the users of our Special Lighting Plants. Write them regarding us.

REV. HUB. ACYMENS, St. Agatha

P. WAGNER, St. Agatha

H. STIFLEMAYER, Baden

R. H. MILLEN, Cottam

W. L. CAMERON, Simcoe

IRA WHITEHEAD, Simcoe

E. R. STYLER, Simcoe

C. R. SOMERVILLE, London

C. S. HYMAN, London

DR. STEVENSON, London

And many others. Write them regarding us.

Warranty

All our Motors and Dynamos are fully warranted for one year against all electrical or mechanical defects and to stand 25 per cent. overload for two hours without undue heating.



JAFFRAY BROS., LIMITED
PRINTERS
GALT, ONTARIO

